

INDIANA DEPARTMENT OF TRANSPORTATION



INTER-DEPARTMENT COMMUNICATION
Standards Section C Room N642



*Writer's Direct Line
232-6775*

October 6, 2000

DESIGN MEMORANDUM No. 00-16 TECHNICAL ADVISORY

TO: **All Design, Operations, District Personnel, and Consultants**

FROM: **/s/ Anthony L. Uremovich**
Anthony L. Uremovich
Acting Design Policy Engineer
Contracts and Construction Division

SUBJECT: **Riprap Ditches**

EFFECTIVE: **Immediately**

Design Manual Section 30-3.03(02) item 4 shows that riprap should be used on ditches with grades of 3% or steeper, and 10% or flatter. However, riprap should be used on slopes steeper than 10% at bridge cones. It is also appropriate to use riprap in a ditch where the grade is flatter than 3%. For example, if there is a hill in the watershed of the ditch, riprap should be placed to dissipate energy and minimize ditch erosion.

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